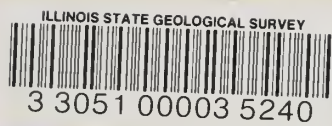
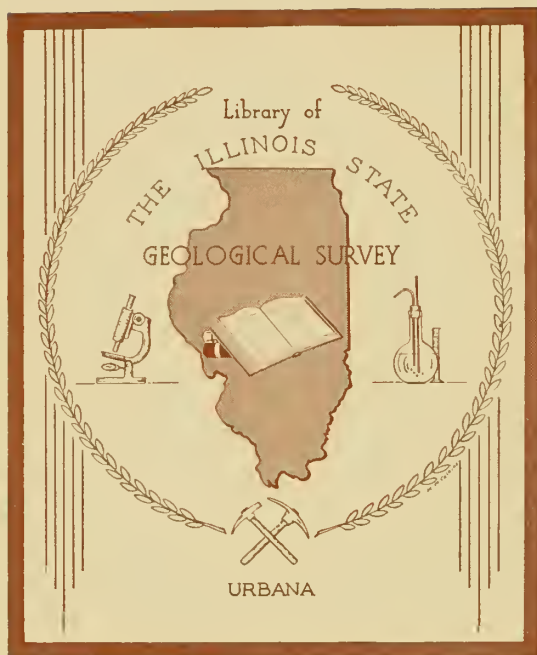



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C I R C U L A R

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AGRICULTURAL LIMESTONE USED IN ILLINOIS IN 1942

Preliminary Report*

By

Walter H. Voskuil and Douglas F. Stevens

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Agricultural limestone used on the farm lands of Illinois established another new record during 1942. Three and three-quarter million tons were used throughout the State, every county having a part; This shows an increase of 22 per cent in quantity over the previous all-time record established in 1941. This very large increase demonstrates the continued recognition of the importance of this material in preserving and improving the fertility of the soils, in order that even greater production of agricultural products will result to meet war-time needs.

* In cooperation with the Midwest Agricultural Limestone Institute.

The use of ground limestone to improve soil fertility has been aided by various State and Federal agencies and farm organizations, especially the soil conservation program of the U. S. Department of Agriculture, in cooperation with the State of Illinois and the College of Agriculture of the University of Illinois. This use is facilitated by the numerous deposits of limestone in many parts of the State.

During 1942, agricultural limestone was produced in 48 of the 102 counties of the State. Of the total amount used during the year, 95 per cent was produced in Illinois.

Table 1 gives the use of agricultural limestone by counties in Illinois during 1942, showing the amount that was produced in Illinois and that produced in other states. It also shows the arable land in each county, and the average quantity of limestone used, in pounds per acre of arable land. These data are from reports of producers, supplemented by information from county farm advisers. Corresponding data are given for 1941.

Table 2 gives the total amount of agricultural limestone produced in other states which was used in Illinois. Table 3 gives the total amount produced in Illinois which was marketed in other states. Table 4 summarizes the disposition and value of Illinois agricultural limestone production during the past three years.

The map shows the counties of Illinois and their average consumption of agricultural limestone per acre of arable land during 1942.

Table 1. Agricultural Limestone Used^{a/} in Illinois,
by Counties, 1941 and 1942

County	Tons Used in 1942			Tons used in 1941	Acres of Arable land (1939 Census)	Pounds used per acre	
	Produced in Illinois	Produced in other states	Total			1941	1942
Adams	42,976	61	43,037	31,841	252,446	252	340
Alexander	9,050	100	9,150	6,321	49,866	254	366
Bond	27,371		27,371	25,458	122,224	416	448
Boone	14,023		14,023	12,300	115,849	212	242
Brown	17,128		17,128	13,564	71,549	378	479
Bureau	39,481		39,481	25,827	352,777	147	224
Calhoun	18,368		18,368	17,500	62,607	560	587
Carroll	47,700		47,700	33,750	151,498	446	630
Cass	15,635		15,635	12,000	137,405	170	228
Champaign	71,948		71,948	35,124	487,052	144	295
Christian	100,883		100,883	44,184	317,469	278	636
Clark	50,214	5	50,219	39,629	147,721	536	679
Clay	26,676	3,014	29,690	26,563	147,932	360	401
Clinton	35,121	590	35,711	28,245	184,463	306	388
Coles	47,628		47,628	24,788	204,186	244	466
Cook	38,174		38,174	10,000	174,178	114	438
Crawford	33,048	743	33,791	38,893	129,019	604	524
Cumberland	33,868	485	34,353	24,334	111,117	436	618
DeKalb	29,091		29,091	25,700	300,180	172	194
DeWitt	18,127		18,127	18,449	178,758	206	203
Douglas	23,744	811	24,555	12,884	203,651	126	241
DuPage	17,886		17,886	21,486	98,841	434	362
Edgar	62,000	333	62,333	24,899	255,054	196	489
Edwards	17,036	3,570	20,606	28,614	79,811	716	516
Effingham	26,761	10,076	36,837	35,766	153,841	464	479
Fayette	28,313	1,277	29,590	22,472	207,106	216	286
Ford	27,135		27,135	23,589	235,032	200	231
Franklin	23,481	1,339	24,820	22,615	101,537	446	489
Fulton	17,897	5,050	22,947	22,346	267,772	166	171
Gallatin	14,120		14,120	12,000	102,638	234	275
Greene	31,789		31,789	46,432	164,814	562	386
Grundy	23,568		23,568	13,117	193,637	136	243
Hamilton	19,092	171	19,263	10,225	126,415	162	305
Hancock	37,895	1,795	39,690	35,027	265,043	264	299
Hardin	9,414		9,414	7,000	21,367	656	882

^{a/} From canvass by Illinois Geological Survey, in cooperation with Midwest Agricultural Limestone Institute.

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Table 1--(Continued)

County	Tons Used in 1942			Tons used in 1941	Acres of Arable land (1939 Census)	Pounds used per acre	
	Produced in Illinois	Produced in other states	Total			1941	1942
Henderson	41,793		41,793	34,242	127,291	536	657
Henry	47,165	9,421	56,586	46,694	327,034	286	346
Iroquois	65,460	17,465	82,925	49,525	536,438	186	309
Jackson	20,428		20,428	20,385	147,931	276	276
Jasper	41,390	23	41,413	37,757	174,186	432	475
Jefferson	41,213	20,354	61,567	26,326	146,453	360	841
Jersey	30,868		30,868	30,142	104,793	572	589
Jo Daviess	30,515		30,515	24,495	144,530	338	422
Johnson	28,612		28,612	23,864	59,742	800	958
Kane	25,116		25,116	21,084	210,186	200	239
Kankakee	56,072		56,072	32,668	300,394	218	373
Kendall	29,388		29,388	18,018	150,326	240	391
Knox	15,486	20,341	35,827	34,651	253,753	272	286
Lake	10,775		10,775	8,080	108,847	148	198
La Salle	86,445		86,445	58,120	506,546	228	342
Lawrence	20,425		20,425	10,747	122,007	176	335
Lee	70,400		70,400	53,850	317,176	338	444
Livingston	118,615		118,615	63,980	522,760	240	454
Logan	20,552		20,552	20,133	305,432	132	135
McDonough	31,294	8,589	39,883	31,523	225,530	278	354
McHenry	20,580		20,580	15,601	211,577	147	195
McLean	142,161		142,161	83,194	557,076	300	510
Macon	18,407		18,407	18,363	263,970	138	139
Macoupin	34,187	200	34,387	50,681	263,157	384	261
Madison	36,283		36,283	32,249	256,470	252	283
Marion	40,098	15,196	55,294	42,306	171,342	492	645
Marshall	18,461		18,461	21,794	158,028	274	234
Mason	23,696		23,696	14,544	225,535	128	210
Massac	21,100		21,100	17,000	56,261	604	750
Menard	23,627		23,627	12,163	128,395	188	368
Mercer	21,000	7,338	28,338	28,728	190,569	300	297
Monroe	25,381		25,381	23,604	144,902	324	350
Montgomery	43,154		43,154	41,022	248,528	330	347
Morgan	11,079	3,259	14,338	15,325	220,259	140	130
Moultrie	21,404	1,109	22,513	11,176	154,637	144	291

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Table 1--(Concluded)

County	Tons Used in 1942			Tons used in 1941	Acres of Arable land (1939 Census)	Pounds used per acre	
	Produced in Illinois	Produced in other states	Total			1941	1942
Ogle	52,017		52,017	39,763	309,633	256	336
Peoria	45,973		45,973	37,680	203,084	370	453
Perry	18,996	2,450	21,446	17,860	126,300	280	340
Piatt	38,409		38,409	16,577	210,451	156	365
Pike	29,591	450	30,041	28,616	232,460	246	258
Pope	15,988		15,988	11,307	52,202	432	613
Pulaski	10,641		10,641	7,134	53,830	264	395
Putnam	17,819		17,819	18,293	56,148	650	635
Randolph	58,562	2,951	61,513	34,353	196,442	348	626
Richland	17,720		17,720	20,783	132,767	312	267
Rock Island	27,246	1,958	29,204	18,800	127,185	294	458
St. Clair	56,803		56,803	40,862	229,600	354	495
Saline	19,744		19,744	15,016	99,227	302	398
Sangamon	45,932	529	46,461	30,037	358,668	168	259
Schuyler	8,922		8,922	9,678	123,785	156	144
Scott	8,513	51	8,564	8,740	87,070	200	197
Shelby	40,493	368	40,861	24,999	283,990	176	288
Stark	29,992	5,156	35,148	34,215	121,264	564	580
Stephenson	62,000		62,000	18,000	212,702	170	583
Tazewell	22,549		22,549	24,901	265,832	188	170
Union	19,725		19,725	18,092	94,140	384	419
Vermilion	74,838	70	74,908	36,645	390,901	188	383
Wabash	4,512	5,722	10,234	8,114	80,345	202	255
Warren	42,375	4,013	46,388	34,264	210,953	324	440
Washington	40,429	8,860	49,289	44,365	211,504	420	466
Wayne	37,665	2,549	40,214	30,691	215,527	284	373
White	18,183	3,089	21,272	13,690	189,016	144	225
Whiteside	44,025		44,025	34,932	274,505	254	320
Will	44,880	104	44,984	20,477	345,147	118	261
Williamson	30,826		30,826	17,655	86,222	432	715
Winnebago	35,315		35,315	30,790	180,603	342	391
Woodford	29,590		29,590	20,436	222,776	182	266
Undistributed	122,500		122,500	410,114			
Total	3,602,044	171,035	3,773,079	3,084,855	20,201,195	Aver. 306	Aver. 373

1900

Table 2. Agricultural Limestone Produced in Other States
and Sold in Illinois, 1936-1942^{a/}
(In tons)

Year	Amount sold in Illinois	Per cent of total Illinois consumption
1936	77,264	7.5
1937	87,479	7.9
1938	118,740	10.2
1939	71,775	5.1
1940	106,912	5.9
1941	95,226	3.2
1942	171,035	4.5

a/ From canvass by Illinois Geological Survey.

Table 3. Agricultural Limestone Produced in Illinois
and Marketed in Other States, 1936-1942^{a/}
(In tons)

Year	Indiana	Kentucky	Missouri	Michigan	Tennessee	Total
1936	28,976	4,129	587	4,950	6,020	44,398
1937	53,375	12	845	7,522	2,703	64,746
1938	36,356	4	675	1,288	4,100	42,463
1939	3,527	4,735	441	500	18,950	28,169
1940	3,800	5,450	353	325	14,900	25,778 ^{b/}
1941	1,800	940	867	65	1,060	4,832 ^{c/}
1942	28,811	9,700	203	53	-	59,017 ^{d/}

a/ From canvass by Illinois Geological Survey.

b/ Includes 950 tons to Wisconsin.

c/ Includes 100 tons to Iowa.

d/ Includes 450 tons to Wisconsin and 19,800 tons to unknown destinations outside of Illinois.

1. 在下列各数中，找出所有能被 3 整除的数，并求出它们的和。

2. 在下列各数中，找出所有能被 5 整除的数，并求出它们的和。

3. 在下列各数中，找出所有能被 7 整除的数，并求出它们的和。

4. 在下列各数中，找出所有能被 11 整除的数，并求出它们的和。

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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5. 在下列各数中，找出所有能被 13 整除的数，并求出它们的和。

6. 在下列各数中，找出所有能被 17 整除的数，并求出它们的和。

7. 在下列各数中，找出所有能被 19 整除的数，并求出它们的和。

8. 在下列各数中，找出所有能被 23 整除的数，并求出它们的和。

9. 在下列各数中，找出所有能被 29 整除的数，并求出它们的和。

10. 在下列各数中，找出所有能被 31 整除的数，并求出它们的和。

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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11. 在下列各数中，找出所有能被 37 整除的数，并求出它们的和。

12. 在下列各数中，找出所有能被 41 整除的数，并求出它们的和。

13. 在下列各数中，找出所有能被 43 整除的数，并求出它们的和。

14. 在下列各数中，找出所有能被 47 整除的数，并求出它们的和。

15. 在下列各数中，找出所有能被 53 整除的数，并求出它们的和。

16. 在下列各数中，找出所有能被 59 整除的数，并求出它们的和。

Table 4. Production and Value of Agricultural Limestone in Illinois, 1940, 1941, and 1942^{a/}

	1940			1941			1942		
	Tons	Value	Ave.	Tons	Value	Ave.	Tons	Value	Ave.
Produced and used in Illinois (Table 1)	2,258,751	\$1,910,000	\$.84	2,989,629	\$2,784,960	\$.93	3,602,044	\$3,371,210	\$.94
Produced in Illinois and marketed in other states (Table 3)	25,778	21,700	.84	4,832	4,510	.93	59,017	55,800	.94
Total produced in Illinois	2,284,529	\$1,931,700	\$.84	2,994,461	\$2,789,470	\$.93	3,661,061	\$3,427,010	\$.94

a/ From canvass by Illinois Geological Survey.

